OIPE IAP100 NOV 0 9 2006 PATENT & TRADEMARK OFFICE

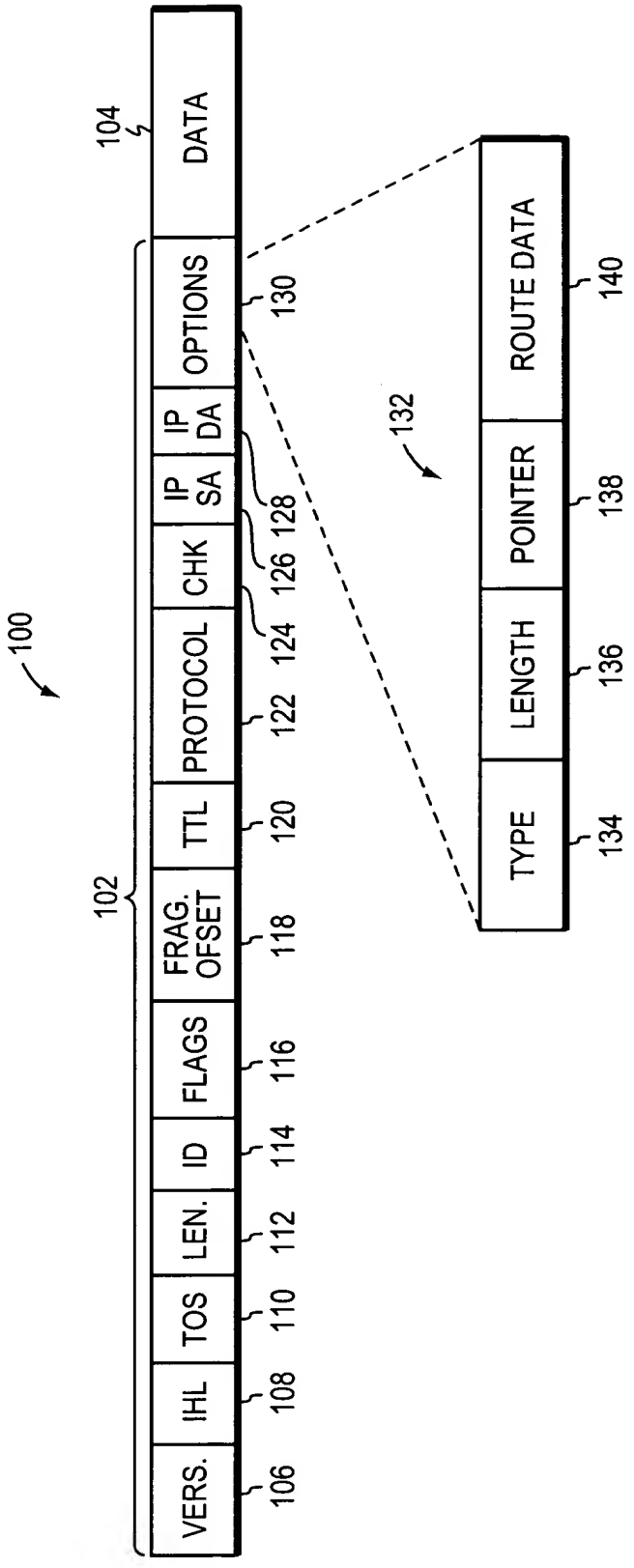


FIG. 1A
(PRIOR ART)

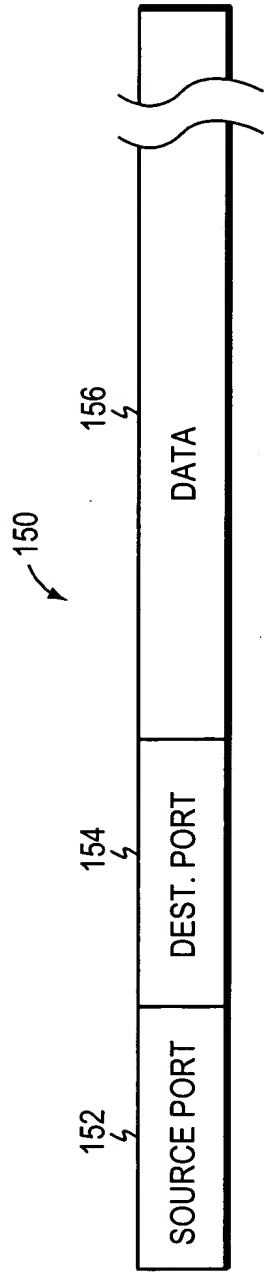
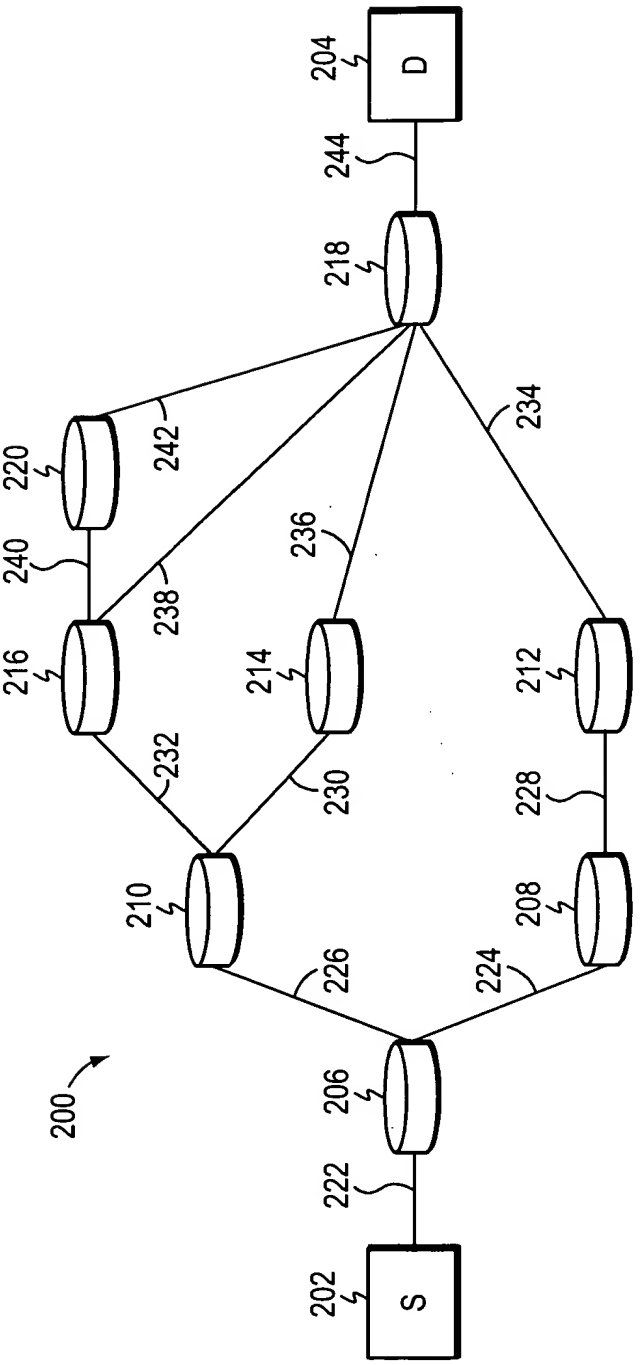


FIG. 1B
(PRIOR ART)


D
204
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218
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214
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200
206
222
S
202

FIG. 2

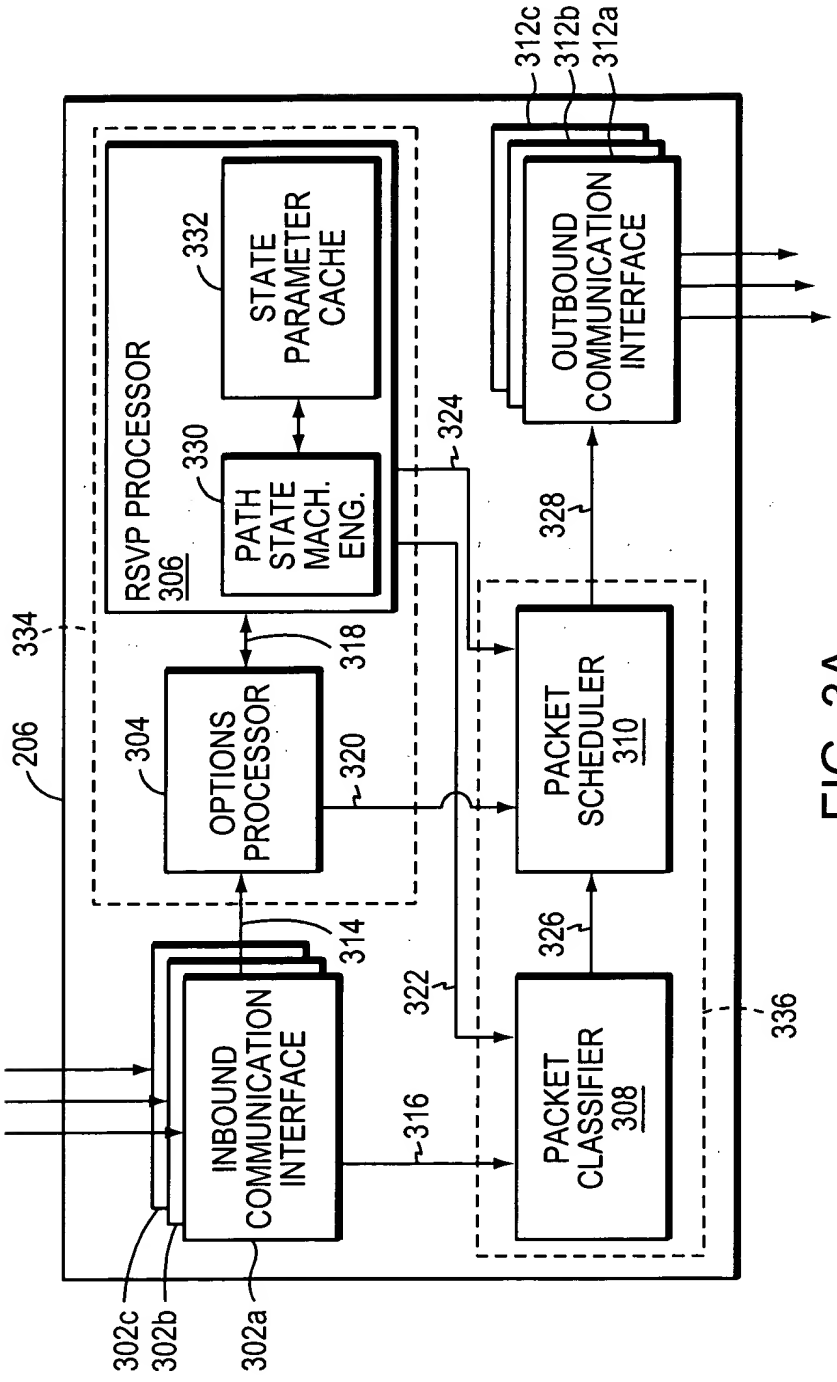
312c
312b
312a
OUTBOUND COMMUNICATION INTERFACE
328
RSVP PROCESSOR 306
STATE PARAMETER CACHE
332
PATH STATE MACH. ENG.
330
324
334
206
304
OPTIONS PROCESSOR
320
318
PACKET SCHEDULER 310
326
322
336
314
INBOUND COMMUNICATION INTERFACE
316
PACKET CLASSIFIER 308
302c
302b
302a

FIG. 3A

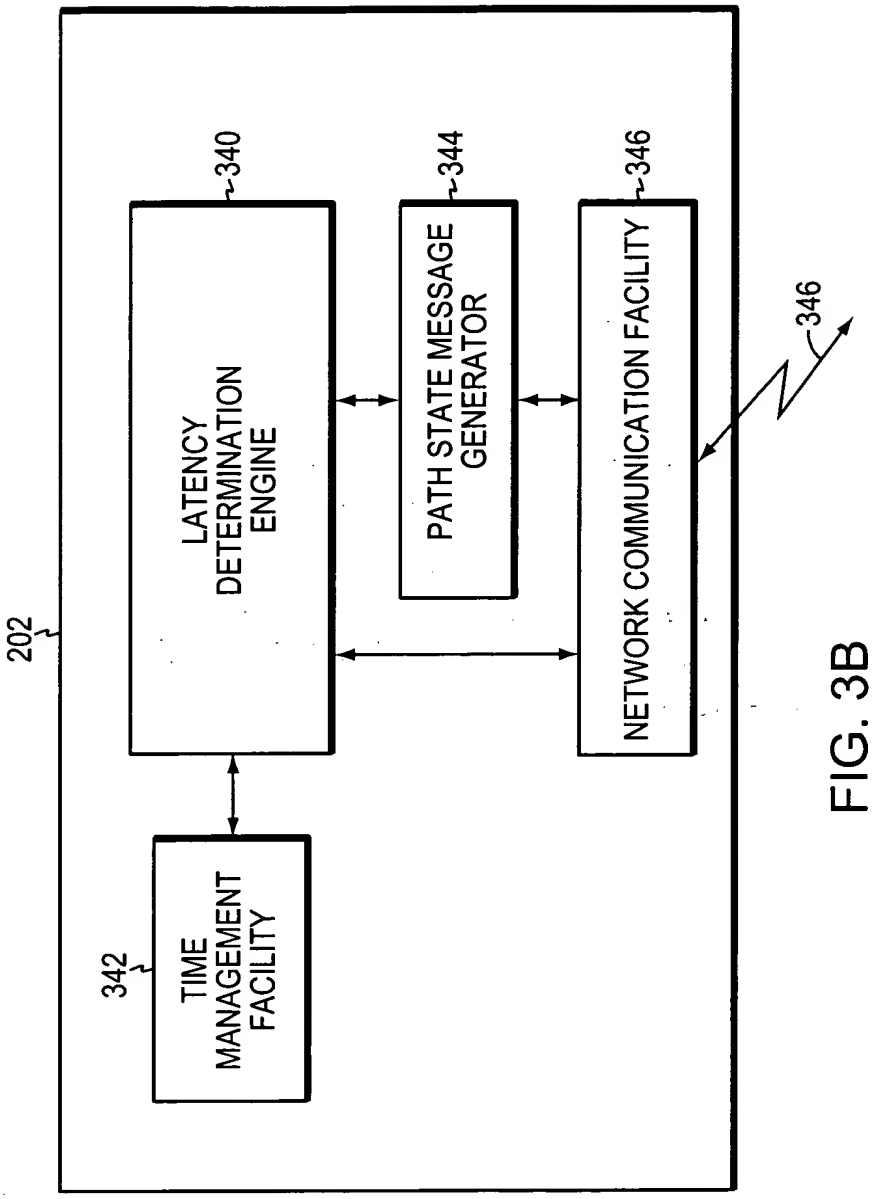
202
LATENCY DETERMINATION ENGINE
340
PATH STATE MESSAGE GENERATOR
344
NETWORK COMMUNICATION FACILITY
346
346
TIME MANAGEMENT FACILITY
342

FIG. 3B

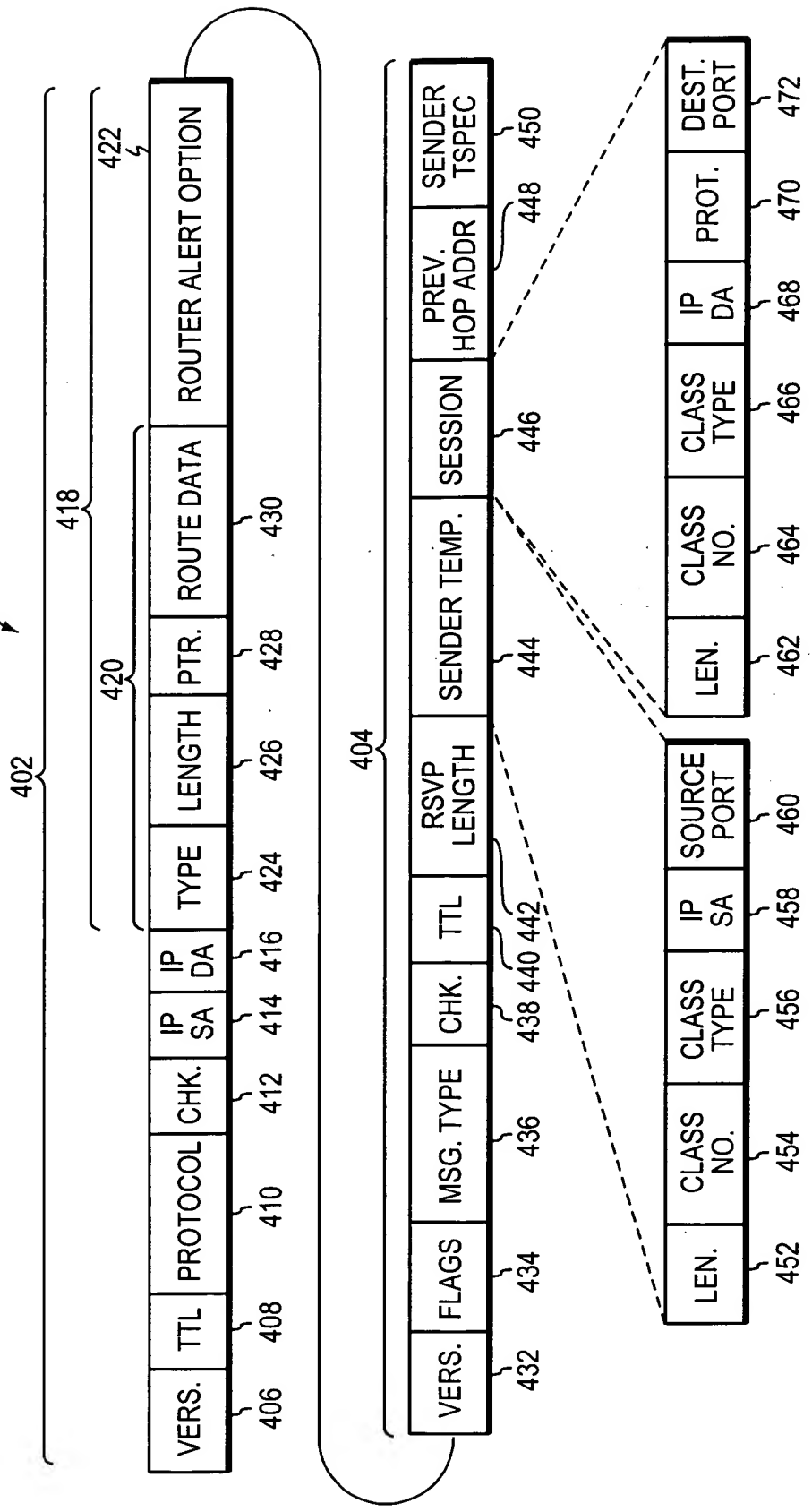
400
402
404
406 VERS.
408 TTL
410 PROTOCOL
412 CHK.
414 IP SA
416 IP DA
418
420
422
424 TYPE
426 LENGTH
428 PTR.
430 ROUTE DATA
ROUTER ALERT OPTION
432 VERS.
434 FLAGS
436 MSG. TYPE
438 CHK.
440 TTL
442 RSVP LENGTH
444 SENDER TEMP.
446 SESSION
448 PREV. HOP ADDR
450 SENDER TSPEC
452 LEN.
454 CLASS NO.
456 CLASS TYPE
458 IP SA
460 SOURCE PORT
462 LEN.
464 CLASS NO.
466 CLASS TYPE
468 IP DA
470 PROT.
472 DEST. PORT

FIG. 4

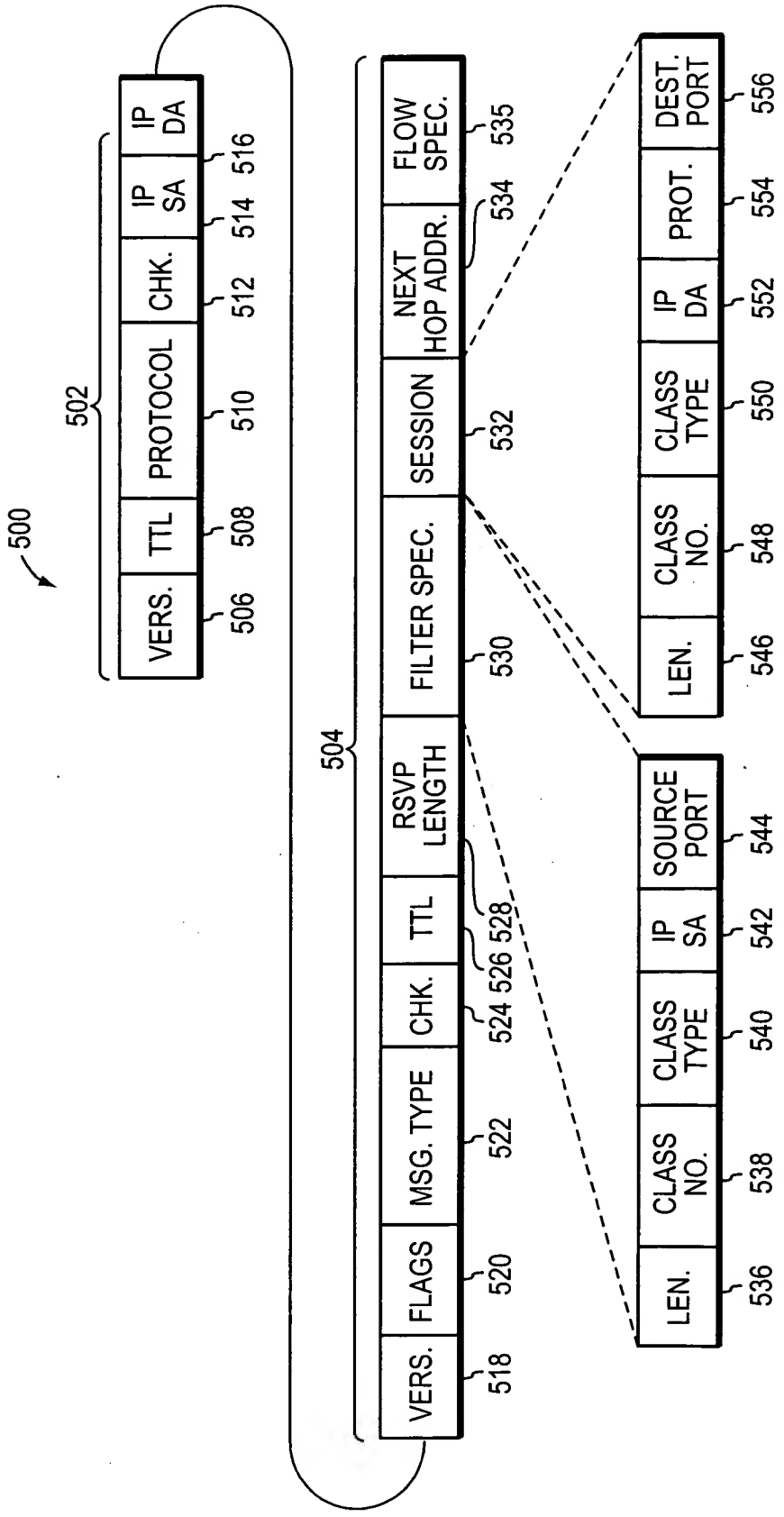
500
502
VERS.
TTL
PROTOCOL
CHK.
IP SA
IP DA
506
508
510
512
514
516
504
VERS.
FLAGS
MSG. TYPE
CHK.
TTL
RSVP LENGTH
FILTER SPEC.
SESSION
NEXT HOP ADDR.
FLOW SPEC.
518
520
522
524
526
528
530
532
534
535
LEN.
CLASS NO.
CLASS TYPE
IP SA
SOURCE PORT
536
538
540
542
544
LEN.
CLASS NO.
CLASS TYPE
IP DA
PROT.
DEST. PORT
546
548
550
552
554
556

FIG. 5